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|  | Charnock-Jones, et al. (1993) "Identification and localization of alternately spliced mRNAs for vascular endothelial growth factor in human uterus and estrogen regulation in endometrial carcinoma cell lines," Biology of Reproduction 48(5):1120-1128  |
|  | Cullinan-Bove, Kathleen et al. "Vascular endothelial growth factor/vascular permeability factor expression in the rat uterus: Rapid stimulation by estrogen correlates with estrogen-induced increases in uterine capillary permeability and growth." Endocrinology, Vol. 133, No. 2, 1993, pages 829-837 |
|  | De Jong J.S., et al. (1998) "Expression of growth factors, growth-inhibiting factors, and their receptors in invasive breast cancer II: Correlation with proliferation and angiogenesis," Journal of Pathology 184(1):53-57   |

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| <b>INFORMATION DISCLOSURE STATEMENT</b><br>(Use several sheets if necessary) |  |  |  | Applicant<br>Ridwan Shabsigh           |  |                             |  |
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| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  |  |          |                 |
|---|--|----------|-----------------|
|   | Harada K., et al. (1996) "Vascular endothelial growth factor administration in chronic myocardial ischemia," American Journal of Physiology 270 (No. 5, Part 2):879-886            |          |                 |
|   | Heaton J.P.W. et al. "A Therapeutic taxonomy of treatments for erectile dysfunction: an evolutionary imperative." International Journal of Impotence Research, Vol. 9, No. 3, 1997 |          |                 |
|   | Isner J.M., et al. (1995) "Arterial gene therapy for therapeutic angiogenesis in patients with peripheral artery disease," Circulation 91(11):2687-2692                            |          |                 |
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| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  |   |          |                 |
|---|---|----------|-----------------|
|   | Joukov, V., et al. (1996) "A novel vascular endothelial growth factor, VEGF-C, is a ligand for the Flt4 (VEGFR-3) and KDR (VEGFR-2) receptor tyrosine kinases," EMBO Journal 15(7):1751 |          |                 |
|   | Neufeld G., et al (1996) "Similarities and differences between the vascular endothelial growth factor (VEGF) splice variants," Cancer & Metastasis Review 15(2):153-158                 |          |                 |
|   | Neufeld G., et al (1994) "Vascular Endothelial Growth Factor and Its Receptors," Progress Growth Factor Research 5(1):89-97   |          |                 |
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| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  |   |          |                 |
|---|---|----------|-----------------|
|   | Olofsson, B., et al (1996) "Vascular endothelial growth factor B, a novel growth factor for endothelial cells," Proceedings of the National Academy Science USA 93(6):2576-2581   |          |                 |
|   | Relf, M., et al. (1997) "Expression of the angiogenic factors vascular endothelial cell growth factor, acidic and basic fibroblast growth factor, tumor growth factor $\beta$ -1, platelet-derived endothelial cell growth factor, placenta growth factor, and pleiotrophin in human primary breast cancer and its relation to angiogenesis," Cancer Research 57(5):963-969 |          |                 |
|   | Shabsigh A. et al. "The microvascular architecture of the rat vagina revealed by image analysis of vascular corrosion casts." International Journal of Impotence Research, Vol. 11, Suppl. 1, 1999  |          |                 |
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| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) |  |
|--|--|
|  | Soker S., et al. (1998) "Neuropilin-1 is expressed by endothelial and tumor cells as an isoform-specific receptor for vascular endothelial growth factor," Cell 92(6):735-745  |
|  | Sugihara F.W., et al. (1998) "A novel alternatively spliced form of murine vascular endothelial growth factor VEGF 115," Journal of Biological Chemistry 273(5):3033-3038  |
|  | Takeshita S., et al. (1996) "Therapeutic angiogenesis following arterial gene transfer of vascular endothelial growth factor in a rabbit of hindlimb ischemia," Biochemical & Biophysical Research Communications 227(2):628-635 |

  

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| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) |   |
|--|---|
|  | Takeshita S., et al. (1994) "Therapeutic angiogenesis. A single intraarterial bolus of vascular endothelial growth factor, augments revascularization in a rabbit ischemic hindlimb model," Journal of Clinical Investigation 93(2):662-670 |
|  | Tarcan T. et al. "Age-related erectile and avoiding dysfunction: the role of arterial insufficiency." British Journal of Urology, Vol. 82, Suppl. 1, 1998   |
|  | Te A.E. et al. "Neurotrophic factors in the rat penis." Journal of Urology, Vol. 152, No. 6, 1994   |
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| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) |   |
|--|---|
|  | Terman, B.I., er al. (1996) "Biological properties of VEGF/VPF receptors," Cancer Metastasis Review 15(2):159-163   |
|  | Thomas, K.A., et al. (1996) "Vascular Endothelial Growth Factor, a potent and selective angiogenic agent," Journal of Biological Chemistry 271(2):603-606 |
|  | Tischer, E., et al. (1991) "Human Gene for Vascular Endothelial Growth Factor," Journal of Biological Chemistry 266(18):11947-11957                       |

  

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**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

|  |   |
|--|---|
|  | Tsurumi, Y., et al. (1997) "Reciprocal relation between VEGF and NO in the regulation of endothelial integrity," Nature Medicine 3(8):879-886 |
|  | Truss, C.M. et al., (1997) "Intracavernous pharmacotherapy" World Journal of Urology 15:71-77   |
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|  |   |

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